

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3. (Canceled)

4. (Currently Amended) The cooling circuit as claimed in claim 5 ~~[[1]]~~, wherein the additional heat exchanger is embodied as a gear oil radiator (13).

5. (Currently Amended) ~~The cooling circuit as claimed in claim 2,~~ A cooling circuit of an internal combustion engine of a motor vehicle having a main cooling circuit, comprising:

a main radiator (5a),

a section (3) located upstream of the radiator,

a radiator return flow section (8),

a coolant pump (10),

a main thermostat (2) and a bypass or short circuit (4) between the main thermostat (2)

and the coolant pump (10), and

a low-temperature circuit, comprising a low-temperature radiator (5b), a low-temperature radiator return flow section (11), a valve unit, and an additional heat exchanger,

wherein the low-temperature radiator (5b) is connected in parallel with the main radiator (5a);

wherein the main thermostat (2) is arranged in the section (3) located upstream of the radiator; and

wherein the valve unit is embodied as a mixing thermostat (14) with a first inlet, a second inlet, ~~two inlets~~ and one outlet, wherein the first inlet and the outlet are connected into the return flow section (11) of the low-temperature radiator (5b), and the second inlet is connected to the main thermostat (2).

6. (Original) The cooling circuit as claimed in claim 5, wherein a warming up thermostat (16) is connected between the second inlet and the main thermostat (2).

7. (Currently Amended) ~~The cooling circuit as claimed in claim 2;~~ A cooling circuit of an internal combustion engine of a motor vehicle having a main cooling circuit, comprising:

a main radiator (5a),

a section (3) located upstream of the radiator,

a radiator return flow section (8),

a coolant pump (10),

a main thermostat (2) and a bypass or short circuit (4) between the main thermostat (2) and the coolant pump (10), and

a low-temperature circuit, comprising a low-temperature radiator (5b), a low-temperature radiator return flow section (11), a valve unit, and an additional heat exchanger,

wherein the low-temperature radiator (5b) is connected in parallel with the main radiator (5a);

wherein the main thermostat (2) is arranged in the section (3) located upstream of the radiator; and

wherein the valve unit is embodied as a warming up thermostat (16) which is connected between the return flow section (11) of the low-temperature radiator (5b) and the bypass or short circuit (4).

8. (Currently Amended) ~~The cooling circuit as claimed in claim 3;~~ A cooling circuit of an internal combustion engine of a motor vehicle having a main cooling circuit, comprising:

a main radiator (5a),

a section (3) located upstream of the radiator,

a radiator return flow section (8),

a coolant pump (10),

a main thermostat (2) and a bypass or short circuit (4) between the main thermostat (2) and the coolant pump (10), and

a low-temperature circuit, comprising a low-temperature radiator (5b), a low-temperature radiator return flow section (11), a valve unit, and an additional heat exchanger,

wherein the low-temperature radiator (5b) is connected in parallel with the main radiator (5a);

wherein the main thermostat (2) is arranged in the radiator return flow section (8); and

wherein the valve unit is embodied as a mixing thermostat (4) with a first inlet, a second inlet, two inlets and one outlet, wherein the first inlet and the outlet are connected into the return flow section (11) of the low-temperature radiator (5b), and the second input is connected to the section (3) located upstream of the radiator.

9. (Original) The cooling circuit as claimed in claim 8, wherein a warming up thermostat (16) is connected between the section (3) located upstream of the radiator and the second inlet.

10. (Currently Amended) ~~The cooling circuit as claimed in claim 3,~~ A cooling circuit of an internal combustion engine of a motor vehicle having a main cooling circuit, comprising:

a main radiator (5a),

a section (3) located upstream of the radiator,

a radiator return flow section (8),

a coolant pump (10),

a main thermostat (2) and a bypass or short circuit (4) between the main thermostat (2)

and the coolant pump (10), and

a low-temperature circuit, comprising a low-temperature radiator (5b), a low-temperature radiator return flow section (11), a valve unit and an additional heat exchanger,

wherein the low-temperature radiator (5b) is connected in parallel with the main radiator (5a);

wherein the main thermostat (2) is arranged in the radiator return flow section (8); and

wherein the valve unit is embodied as a warming up thermostat (16) which is connected into the return flow section (11) of the low-temperature radiator (5b).

11. (Canceled)

12. (Currently Amended) ~~The coolant radiator as claimed in claim 11,~~ A coolant radiator of a cooling circuit of an internal combustion engine of a motor vehicle, comprising:

a pipe/rib block,

a coolant inlet box (51, 62) with a coolant inlet (53, 63), and

a collecting box (52, 64) with a coolant connection to the pipe/rib block,

wherein the pipe/rib block has a main region (50a, 61a) and a low-temperature region (50b, 61b), and coolant outlets for a coolant main flow and a coolant partial flow;

wherein the main region (50a, 61b) and the low-temperature region (50b, 61b) are connected in parallel; and

wherein a dividing separating element (54, 66) which divides the pipe/rib block into the main region (50a, 61a) and the low-temperature region (50b, 61b), and divides the collecting box (52, 64) into a main chamber (55, 67) and a secondary chamber (56, 68) is arranged in the collecting box (52, 64).

13. (Original) The coolant radiator as claimed in claim 12, wherein the dividing element is embodied as a sealed dividing wall (54, 66).

14. (Original) The coolant radiator as claimed in claim 12, wherein the dividing element is embodied as an unsealed dividing wall with a throttle point.

15. (Original) The coolant radiator as claimed in claim 12, wherein the dividing element is embodied as a dividing wall with a valve.

16. (Currently Amended) ~~The coolant radiator as claimed in claim 11,~~ A coolant radiator of a cooling circuit of an internal combustion engine of a motor vehicle, comprising:

a pipe/rib block,

a coolant inlet box (51, 62) with a coolant inlet (53, 63), and

a collecting box (52, 64) with a coolant connection to the pipe/rib block,

wherein the pipe/rib block has a main region (50a, 61a) and a low-temperature region (50b, 61b), and coolant outlets for a coolant main flow and a coolant partial flow;

wherein the main region (50a, 61b) and the low-temperature region (50b, 61b) are connected in parallel; and

wherein a partial stream of coolant, which makes up approximately 4% to 15% of an ~~the~~ entire stream of coolant, can flow through the low-temperature region (50b, 61b).

17. (Currently Amended) The coolant radiator as claimed in claim 12, wherein an additional heat exchanger, ~~in particular a gear oil radiator (59, 72)~~ is integrated into, or with, the collecting box (52, 64), and a partial stream of coolant can flow through it.

18. (Previously Presented) The coolant radiator as claimed in claim 12, wherein an open longitudinal dividing wall (57) is arranged in the main chamber (55) and forms a mixing chamber (58) in which the additional heat exchanger (59) is arranged.

19. (Original) The coolant radiator as claimed in claim 18, wherein a mixing thermostat (60), which has a coolant connection to the secondary chamber (56) and the mixing chamber (58) and can be connected to the cooling circuit, is integrated into the mixing chamber (58).

20. (Currently Amended) The coolant radiator as claimed in claim 17, wherein the additional heat exchanger (72) is attached to the collecting box (64) by ~~means of~~ a mounting plate (71).

21. (Currently Amended) The coolant radiator as claimed in claim 20, wherein a mixing chamber (69) is arranged in the region of the secondary chamber (68) and a mixing thermostat (70), wherein the mixing thermostat [[which]] has a coolant connection to the secondary chamber (68) and to the mixing chamber (69) and can be connected to the cooling circuit is integrated into the mixing chamber (69), and wherein the additional heat exchanger (72) has a coolant connection to the mixing chamber (69) and the main chamber (67).

22. (New) The coolant radiator as claimed in claim 17, wherein the additional heat exchanger is a gear oil radiator (59, 72).